Main Chamber (~14 in tall, 10in CF connections) *has a belt inside?

1. Top Flange [*threaded holes]*
    a. Connected to 10in {24ct 5/16-24x1.75" Bolts, 24ct 5/16 washers, 10" Copper Gasket} -> 6in zero length reducer
        i. Connected to turbo pump {16ct 5/16-24x1.25" Bolts, 16ct 5/16 washers, 6" Copper Gasket}
2. Bottom Flange
    a. Connected to 10in {24ct 5/16-24x2.5" Bolt, 24ct 5/16 nuts, 48ct 5/16 washers, 10" Copper Gasket}-> 6in zero length reducer
        i. Connected to 6in blank {16ct 5/16-24x1.25" Bolts, 16ct 5/16 washers, 6" Copper Gasket}
            1. Attached to clamp (2ct 5/16-24x2.5" Bolts, 2ct 5/16 nuts, 4ct 5/16 washers}
                a. Mounted to 4 optical posts (4ct 1/4 in optical screws)
                    i. Secured with 4 clamping forks
3. Right Flange (towards 1119) *[extended arm]*
    a. Connected to view port {24ct 5/16-24x2.5" Bolt, 24ct 5/16 nuts, 48ct 5/16 washers, 10" Copper Gasket}
4. Left Flange (connection to RGA chamber)
    a. Connected to 10in {24ct 5/16-24x2.5" Bolt, 24ct 5/16 nuts, 48ct 5/16 washers, 10" Copper Gasket} -> 6in reducing nipple
        i. Connected to GV {16ct 5/16-24x1.25" threaded Bolt, 16ct 5/16 washers, 6" Copper Gasket} *BT threaded *broken screws in GV**
5. Back Flange (towards wall)
    a. Connected to Multiport Flange {24ct 5/16-24x2.5" Bolt, 24ct 5/16 nuts, 48ct 5/16 washers, 10" Copper Gasket} (3x2.75in OD)
        i. Pumpline Connection {6ct 1/4-24x1.25" Bolt, 6ct 1/4 nuts, 12ct 1/4 washers, 2.75" Copper Gasket}
        ii. Priyani Gauge Connection {6ct 1/4-24x1.25" Bolt, 6ct 1/4 nuts, 12ct 1/4 washers, 2.75" Copper Gasket}
        iii. 2.75in blank flange connection {6ct 1/4-24x1.25" Bolt, 6ct 1/4 nuts, 12ct 1/4 washers, 2.75" Copper Gasket}
6. Front Flange (towards door) [*threaded holes*]
    a. Connected to door {24ct 5/16-24x1.75" Bolts, 24ct 5/16 washers, 10" Copper Gasket}

RGA Chamber (~13in tall, 8in CF connections)

1. Top Flange
    a. Connected to 8in {20ct 5/16-24x2.5" Bolts, 20ct 5/16 washers, 8" Copper Gasket} -> 4.5in zero length reducer
        i. Connected to turbo pump {8ct 5/16-24x1.25" Bolts, 8ct 5/16 washers, 16ct 5/16 nuts, 4.5" Copper Gasket}
2. Bottom Flange
    a. Connected to 8in {20ct 5/16-24x2.5" Bolts, 20ct 5/16 washers, 8" Copper Gasket} -> 6in zero length reducer
        i. Connected to 6in blank {16ct 5/16-24x1.25" Bolts, 16ct 5/16 washers, 6" Copper Gasket}
            1. Attached to clamp {2ct 5/16-24x2.5" Bolts, 2ct 5/16 nuts, 4ct 5/16 washers}
                a. Mounted to 4 optical posts {4ct 1/4in optical screws} (raised by 1 addition inch to be level with main chamber)
                    i. Secured with 4 clamping forks
3. Right Flange (connection to Main Chamber)
    a. Connected to 8in {20ct 5/16-24x2.5" Bolts, 20ct 5/16 washers, 8" Copper Gasket} -> 6in reducing nipple
        i. Connected to GV {16ct 5/16-24x1.25" threaded Bolt, 16ct 5/16 washers, 6" Copper Gasket} *BT threaded *broken screws in GV**
4. Left Flange (towards 1129)
    a. Connected to view port {20ct 5/16-24x2.5" Bolts, 20ct 5/16 washers, 8" Copper Gasket}
5. Back Flange (towards wall)
    a. Connected to multiport angled flange (3x2.75in OD) {20ct 5/16-24x2.5" Bolt, 20ct 5/16 nuts, 40ct 5/16 washers, 8" Copper Gasket}
        i. RGA connection {6ct 1/4-24x1.25" Bolt, 6ct 1/4 nuts, 12ct 1/4 washers. 2.75" Copper Gasket}
        ii. Pumpline connection {6ct 1/4-24x1.25" Bolt, 6ct 1/4 nuts, 12ct 1/4 washers, 2.75" Copper Gasket}
        iii. 2.75in blank flange connection {6ct 1/4-24x1.25" Bolt, 6ct 1/4 nuts, 12ct 1/4 washers, 2.75" Copper Gasket}
6. Front Flange (towards door)
    a. 8in blank flange {20ct 5/16-24x2.5" Bolts, 20ct 5/16 nuts, 40ct 5/16 washers, 8" Copper Gasket}

Totals:

Connections:

- 1/4-24x1.25” Bolts: 36
- 5/16-24x1.25” Bolts: 88
- 5/16-24x1.75” Threaded Bolts: 48
- 5/16-24x2.5” Bolts: 220

- Washers for 5/16 Bolts: 496
- Washers for 1/4 Bolts: 72

- Nuts for 5/16 Bolts: 156
- Nuts for 1/4 Bolts: 36

- 10in Copper Gaskets: 6
- 8in Copper Gaskets: 6
- 6in Copper Gaskets: 5
- 2.75in Copper Gaskets: 6

Parts:

- 10in -> 6in zero length reducer: 2
- 10in -> 6in reducing nipple: 1

- 8in -> 6in zero length reducer: 1
- 8in -> 6in reducing nipple: 1
- 8in -> 4.5in zero length reducer: 1

- 8in blank flange: 1
- 6in blank flange: 2
- 2.75in blank flange: 2